## SAVANTS MAKE RESEARCHES IN HIGH ROCKIES

European and American Geographers Study Formations of Towering Mountain Peaks in Colorado.

DIVIDED IN THEORY ABOUT METEOR CRATER

Interesting Phenomenon in North Central Arizona Subject of Much Discussion; Pleased With Salt Lake.

Special Correspondence of New York Times and Salt Lake Tribune. ENVER, Colo., Oct. 12 -- In Colorade, the members of the American Geographical sociey's transcontinental exenssion reached their highest altitudes. They walked over Hagerman pass, which is nearly 12,000 feet above sea level, and which is the dividing line between the waters flowing westward into the Pacific ocean, by way of the Colorado river, and those flowing into the Gulf of Mexico through the Arkansas and Mississippi rivers. Their train then passed within a few miles of Mount Mussive and Mount Elbert, which are the culminating points of the Rocky mountains in the United States, and by a remarkable coincidence, are of the same elevation, 14,402 feet, as nearly as can be determined by the most careful measurement. The next day they started from Denver on the Moffat railroad and ascended to its highest point, Corona, 11,660 feet above the sea, from which they climbed to a neighboring peak on the continental divide, at an

of Colorado were full of interest and could be easily rolled down, and so in conjoyment, and there were many comparisons made between these mountains and the elevated regions in other. Stumps were still found on the bare tunnel, they keep traffic moving over in the southern part of the impact of a meteor, perhaps solid, but more probably compoint of securing low grades by the impact of a meteor, perhaps solid, but more probably compoint of securing low grades by the impact of a meteor, perhaps solid, but more probably compoint of securing low grades by the impact of a meteor, perhaps solid, but more probably compoint of securing low grades by the impact of a meteor, perhaps solid, but more probably compoint of securing low grades by the impact of a delevations.

# FOR DANDRUFF, FALLING HAIR OR

glistens with beauty and is radiant with life; has an incomparable softness and is fluffy and lustrous, you must use Danderine, because nothing else accomplishes so much for the hair.

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your hair, besides it immediately dissolves every particle of dandruff; you cannot have nice, heavy, healthy hair if you have dandruff. This destructive bearf robs the hair of its lustre, its scalp and no more falling hair—you strength and its very life, and if not overcome it produces a feverishness eventually—why not now? A 25 cent and itching of the scalp; the hair roots bottle will truly amaze you.

parts of the world. Professor Emile mountain sides, showing where trees chaix, of the University of Geneva, who was formerly president of the Swiss Alpine club, and who is one of the strongest pedestrians in the party. found the climbing easy as compared with many of the ascents he had made in his native land. He said that the in his native land. He said that the and over the Rocky mountains. The Colorado mountains he had seen have heights there railroads reached were gentle slopes and rounded forms compared with the Swiss Alps, which have steeper slopes and sharp and serrated tops. In Switzerland we could not have climbed to the heights we reached here without using our hands as well

fields and meadows are called "alps" by the Swiss peasants, who have little interest in the rocky and snowy summits, and this word has been transferred to the mountains themselves until now it is applied to mountainous regions in general.

In Colorado Professor Chaix was

struck by the clevated tree line. The

as our feet, and being aided by a rope

### High Timber Line.

trees grew almost as high as we climbed, whereas in Switzerland they reached hardly half that elevation. He believed, however, that the Swiss tree At High Altitudes.

As the party included in its ranks men who had climbed and studied menutable in all accordance of the action of the second of the party included in its ranks are the second of th mountains in all quarters of the globe, ally took those that were nearest at the days spent in the high country band, or which were above them and elevations.

ard steam railroads of Europe

### Railroads Amaze Scientists.

Comparing them with roads in about the same latitude abroad, he said that in the Pyrenees, between France and Spain, the only railroads were built as our feet, and being aided by a rope as well.

The Colorado highlands have large plateaus, whereas the level places in the Swiss mountains are small in extent and are often used as pastures for cattle and goats. These mountain fields and meadows are called "alps" the search of the seacoast on the east and the west, where the elevations were very low, and that there were no railroads at all in the central higher Pyrenees, between France and Spain, the only railroads were built close to the seacoast on the east and the west, where the elevations were low, and that there were no railroads at all in the central higher Pyrenees, between France and Spain, the only railroads were built close to the seacoast on the east and the west, where the elevations were low, and that there were no railroads at all in the central higher Pyrenees, between France and Spain, the only railroads were built close to the seacoast on the east and the west, where the elevations were low, and that there were no railroads at all in the central higher Pyrenees, between France and Spain, the only railroads were built close to the seacoast on the east and the west, where the elevations were low, and that there were no railroads at all in the central higher Pyrenees, between France and Spain, the only railroads were built close to the seacoast on the east and the west, where the elevations were low, and that there were no railroads at all in the central higher Pyrenees, between France and Spain the only railroads and the west, where the elevations were low, and that there were no railroads at all in the central higher Pyrenees, between the close to the seacoast on the east and the west, where the elevations were low, and that there were no railroads at all in the central higher Pyrenees. main lines reached heights of from 10,000 to 12,000 feet, and the Rockies were crossed and recrossed many times by the steel rails.

Professor Partsch thought that the

elevated situation of some of the hig mining towns, such as Leadville and Cripple Creek, had promoted the con-struction of the mountain railways of struction of the mountain railways of Colorado, but even without this incentive, several of the railroads attained extraordinary altitudes. He had doubts, however, about some of the economic aspects of the Colorado railway situation. He wendered if so many railroads in a new and thinly populated country could pay, and he thought that the high mountain roads, with their heavy grades and sharp curves. that commercial considerations demand-the construction of tunnels at lower

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If your Hair Danderine and stops a growing tendency now to build tunneds, and he had noticed that at Hagerman pass, an old tunnel near the head of the pass had been abandoned in favor of one considerably lover the main range of track and a very severe climb for the main

## Impressed With Zion.

Salt Lake City and Denver were visited just before and just after passing over the Rockies, and both made an excellent impression. At the former a stop of over two days was made and the visitors had a chance to see the

city and the surrounding country. The foreigners were especially pleased with the very clean, wide streets and, with the pure, dry air, and as many of them are music lovers, they took great delight in an organ recital which was given in the Mormon tabernacle.

At Denver only a few hours could be spent, and the weather was not favorable, which is unusual for that city of sunshine, but, nevertheless the brilliant illumination of the streets and buildings and the evidences of prosperity and healthy growth and metropolitan life which were apparent on all sides life which were apparent on all sides convinced the visitors that Denver was very much "on the map."

### Meteor Crater Interesting.

One of the most interesting objects in the Southwest, and one which has given occasion for a great amount of scientific discussion, is the so-called scientific discussion, is the so-called Meteor crater, in northern central Arizona. This natural phenomenon is a great pit nearly circular in shape and about 4000 feet in diameter. Its bottom, which is more or less level, is at an average depth below the rim of 570 feet, and the top of the rim is about 100 feet above the surrounding country, which is a rather level rocky plain with a very thin covering of soil. The upper stratum of rock in the immediate vicinity of the "crater" is red sandstone, horizontally bedded, and underneath this are stratas of limestone and sandstone. When the crater was formed, by whatever means it may have formed, by whatever means it may have been, these level rock beds were dis lodged from their position and thrown up in the great mass which now forms the ridge around the pit, and whose weight has been estimated at more than 300,000,000 tons. Thousands of pieces of iron, supposedly meteoric in character, and of all sizes up to nearly a ton in weight have been found within a in weight, have been found within a radius of five miles of the crater, the larger number of them within a mile or two of the rim, but so far only small fragments of iron have been found by drilling within the crater itself. There appears to be no volcanic material within a distance of nine miles from the pit.

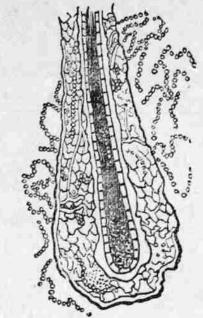
## Hole Made by Meteor.

All these facts have led to the theory that the great hole in the ground was made by the impact of a meteor, per-haps solid, but more probably composed of a cluster of thousands of me-teorites, the greater part of which are now imbedded hundreds of feet deep

## Keep Your Hair Healthy



A HEALTHY HAIR.



AN UNHEALTHY HAIR.

If your hair lacks luster, is dry, brittle and uneven, it is unhealthy. One of these bulbs magnified several thousand times under a powerful microscope has the appearance shown here by the right hand picture. Such hair is far from pretty. Hair sickness is usually due to dandruff. The germ that causes this common but annoying trouble burrows down into the follicle or hair bulb. As the microbe develops, it sets up an inflammation that ultimately destroys the adhesion at the papilla and the starved hair finally slips out.

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der the southern wall, which is more displaced and which has a larger amount of dislodged material than any other part of the rim. This view is held by D. M. Barringer, who has de-years of study to the Meteor crater, and who was the host and guide of the American Geographical society's party on its visit to this interesting spot.

But many of the geographers could not agree with this theory, and had opinions of their own concering the origin of the pit. Professor Eugene de Cholnoky, of Kolozsvar, Hungary, who has individual ideas on most subjects, started off on an independent investigation as soon as he arrived on the condition of the earth's atmosphere, are differences in pressure.

Holds Meteor Theory. gation as soon as he arrived on the ground, and found beds of travertine on the western side of the rim, and other material which is associated with deposits made by hot springs.

## Takes Different View.

Judging by this, and also by the positions of the beds of rock, both those which had been uplifted and those the uplifting of the rocks, and scatterwhich composed the top of the plain outside, he came to the conclusion that the pit had been made by a steam exthe pit had been made by a steam explosion, or a geyser on a gigantic scale. After the explosion the siliceous deposits from the geyser had covered the dislodged rocks to a great extent and protected them from being worn away, while the surrounding plain had been croded down some distance below the ancient level. After returning to the train, he was greatly pleased to discover that W. D. Johnson, of the United States geological survey, had also found travertine on the eastern side of the ridge between one-quarter and one-half mile from the edge of the rim and had very much the same general oninion as to the cause of the formation of the pit, believing that water in the interstices of the underlying rock had been heated to the holling noint by volenne action still farther down, until the accumulated steam burst out in til the accumulated steam burst out in the grand explosion which made the crater. The lava or other volcanic ma-terial itself was so far down in the depths of the earth, however, that no truces of it had been found.

## Parallel in Wurtemberg.

In support of this hypothesis, Pro-fessor Edward Brueckner, of the Uni-versity of Vienna, told of an enormous pit or caldera at Ries, in Wartemberg. pit or caldera at Rics, in Wartemberg, in the Swabian Jura, which is about twelve and a half miles in diameter, and between 1000 and 1300 feet deep. There is no volcanic material there, either, but the dislodged blocks of granite, gneiss, and so on, which form the surrounding rocks, indicate pretty clearly that the force causing their displacement must have come from below and was probably due to a geyserlike steam explesion.

Professor Chaix, on the other hand

like steam explesion.

Professor Chaix, on the other hand believed that if there had been highenough temperatures to boil the water in the sandstone rocks, the rocks themselves would have been affected, and would show some signs of their hear treatment, and he also thought that if the internal first of the earth he had the other treatment of the earth he

if the internal fires of the earth he been the ultimate cause of the explosion, some tree of volcanic action would be visible at, or near, the surface. On the whole therefore he was incheed to the meteoric theory.

Professor J. F. Niermever, of Utreebt raised the point that if the hole had been made by a cluster of meteorites it would not be circular, but would be clougated, as the meteorites would strike the earth in a long noth, owing to their own and the carth's motion. He also called attention to a paper by Professor M. E. Mulder, of Holland, which had been noblished about a year ago, and which treals of the explosion of meteors in general, and of the oriof meteors in general, and of the ori

gin of Meteor erater in particular. His theory is founded on observtiona made by Albert Kapteyn on aeroplanes and projectiles, where it has been found that there is a maximum pressure on the forward end and a minimum pres sure sometimes amounting to a negative

1st South and Main.

With regard to the Meteor crater phenomenon, he thinks it was due to a great meteor which has hollow, but whose walls were strong enough to resist explosion until it struck the earth It penetrated the upper standstone and limestone strata, but in doing so its in-ternal pressure was increased so that it exploded with terrific force, causing



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Schramm-Johnson, five stores, and drug gists everywhere.

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